



Aviation Investigation Final Report

Location:	Kenansville, North Carolina	Accident Number:	ATL06CA063
Date & Time:	April 12, 2006, 16:00 Local	Registration:	N3FS
Aircraft:	Cessna 0-1A	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Public aircraft		

Analysis

The pilot stated that the flight was initiated for the purpose of observing the local forestry conditions, and after the observation flight was completed the airplane returned to the airport. The pilot noted that the wind conditions at the airport were 90 to 140 degree crosswinds on the approach to runway 23. The pilot stated that the approach and touchdown were normal, and as the airplane began to roll out "it was struck by a strong crosswind gust" which forced the airplane onto its right landing gear. The airplane yawed to the left and the pilot applied full right rudder. The pilot stated that the wheel/axle separated from the right landing gear leg and the airplane veered off of the runway to the left. The right landing gear leg separated from the fuselage, and the right wing tip impacted the ground. The pilot stated that the accident could have been prevented with better skills and experience.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to maintain directional control which resulted in an ground loop, and subsequent collision with ground.

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER
Phase of Operation: LANDING - ROLL

Findings

1. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND
2. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND

Factual Information

On April 12, 2006, at 1600 eastern daylight time, a Cessna 0-1A, N3FS, registered to and operated by the North Carolina Forest Service as a public use flight, had the pilot lose directional control during landing roll at the Duplin County Airport, Kenansville, North Carolina. Visual meteorological conditions prevailed and no flight plan was filed. The commercial pilot and passenger reported no injuries and the airplane received substantial damage. The flight originated from the Kenansville, North Carolina, at 1545.

The pilot stated that the flight was initiated for the purpose of observing the local forestry conditions, and after the observation flight was completed the airplane returned to the airport. The pilot noted that the wind conditions at the airport were 90 to 140 degree crosswinds on the approach to runway 23. The pilot stated that the approach and touchdown were normal, and as the airplane began to roll out "it was struck by a strong crosswind gust" which forced the airplane onto its right landing gear. The airplane yawed to the left and the pilot applied full right rudder. The pilot stated that the wheel/axle separated from the right landing gear leg and the airplane veered off of the runway to the left. The right landing gear leg separated from the fuselage, and the right wing tip impacted the ground. The pilot stated that the airplane came to rest 10 feet from the runway edge. The pilot stated that the accident could have been prevented with better skills and experience.

Pilot Information

Certificate:	Commercial	Age:	57, Male
Airplane Rating(s):	Multi-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	Glider	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	January 1, 2006
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	December 1, 2005
Flight Time:	2310 hours (Total, all aircraft), 70 hours (Total, this make and model), 1896 hours (Pilot In Command, all aircraft), 82 hours (Last 90 days, all aircraft), 45 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N3FS
Model/Series:	0-1A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	51-1268
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	April 1, 2006 Annual	Certified Max Gross Wt.:	2300 lbs
Time Since Last Inspection:	12836 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	12836 Hrs as of last inspection	Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	TIO-1420
Registered Owner:	North Carolina Forest Service	Rated Power:	213 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:	USDA FOREST SERVICE FEPP	Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	DPL,137 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	15:59 Local	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	Broken / 6000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	12 knots / 16 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	140°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.31 inches Hg	Temperature/Dew Point:	24°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	KENANSVILLE, NC (DPL)	Type of Flight Plan Filed:	None
Destination:	KENANSVILLE, NC (DPL)	Type of Clearance:	None
Departure Time:	15:45 Local	Type of Airspace:	

Airport Information

Airport:	DUPLIN CO DPL	Runway Surface Type:	Asphalt
Airport Elevation:	137 ft msl	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	Visual
Runway Length/Width:	6000 ft / 90 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	34.983333,-77.966667

Administrative Information

Investigator In Charge (IIC):	Alleyne, Eric
Additional Participating Persons:	Corey Summerell; Greensboro FSDO-05; Greensboro, NC
Original Publish Date:	July 31, 2006
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=63532

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